# TEST RESULTES FOR MS RECTANGULAR POLE

**Lab ID** : CP-2021-07-20-20 **Date: 22-04-21**

**Customer** : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

**Address** : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

**Project Name** : "Providing Chain Link Fencing in Ward No:04".

**Agency** : Sri.R.Ranganath, No:37, 19th Cross, 1st N Block, Rajajinagara, Mahalakshmipuram.

**Customer's Reference** : BBMP/EE/YNK.D/EPMT--8/W.O/02/2020-21

**Sourse of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 20-04-21

**Type of Sample** : M.S Rectangular Pole(65X65X6)mm

**Reference to BIS codes** : IS:1608-2005(RA 2011), IS 1599-2012.

**Date of test** : 20-04-21

**TESTS RESULTS FOR M.S RECTANGULAR POLES MADE OUT OF 2 EQUAL ANGLES OF 65 X 65 X 6 MM WELDED TOGETHER**

| SL.NO | Description | Result | Required as per IS Code 2062:2011 | Remarks |
|---|---|---|---|---|
| 1 | Weight/Meter (Kg /m) | 5.81 | 5.8 Kg/m | Satisfactory |
| 2 | Yeild stress (N/mm2) | 278 | 250N/mm$^2$ | Satisfactory |
| 3 | Tensile Strength (N/mm2) | 485 | 410N/mm$^2$ | Satisfactory |
| 4 | Elongation Percentage (%) | 23.5 | Min23% | Satisfactory |
| 5 | Bend Test | Satisfactory | Should not Crack or fracture | Satisfactory |

• The results obtained are satisfactory as per standard requirements.

**Note:**
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Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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# TEST RESULTES FOR MS BLOCK PIPE

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2021-07-20-20** **Date: 21-04-21** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| **Address** | : | Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| **Agency** | : | "Providing Chain Link Fencing in Ward No:04". |
| **Project Name** | : | Sri.R.Ranganath, No:37, 19th Cross, 1st N Block, Rajajinagara, Mahalakshmipuram. |
| **Customer's Reference** | : | BBMP/EE/YNK.D/EPMT--8/W.O/02/2020-21 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 19-04-21 |
| **Type of Sample** | : | M.S Block Pipe |
| **Reference to BIS codes** | : | IS:1608-2005(RA 2011), IS 1599-2012. |
| **Date of test** | : | 19-04-21 |

**TESTS RESULTS FOR MS BLOCK PIPE 38MM DIA, 14 GAUGE**

| Sl. No | Description | Result | Required as per as IS Code 2062: 2011 | Remarks |
|---|---|---|---|---|
| 1 | Yeild Stress (N/mm2) | 299 | 250N/mm$^2$ | Satisfactory |
| 2 | Tensile Strength (N/mm2) | 509 | 410N/mm$^2$ | Satisfactory |
| 3 | Elongation Percentage (%) | 24 | Min 23% | Satisfactory |

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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## TEST RESULTS FOR CHAIN LINK FENCING

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2021-07-20-20** **Date: 23-04-21** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| **Address** | : | Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| **Project Name** | : | "Providing Chain Link Fencing in Ward No:04". |
| **Agency** | : | Sri.R.Ranganath, No:37, 19th Cross, 1st N Block, Rajajinagara, Mahalakshmipuram. |
| **Customer's Reference** | : | BBMP/EE/YNK.D/EPMT--8/W.O/02/2020-21 |
| **Sourse of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 21-04-21 |
| **Type of Sample** | : | Chain Link Fencing |
| **Reference to BIS codes** | : | IS 2062:2011 |
| **Date of test** | : | 21-04-21 |

| TESTS RESULT FOR WIRE MESH | | |
|---|---|---|
| **SL.NO** | **Description** | **Result** |
| 1 | **Average Thickness in mm** | 4.04 |
| 2 | **Dia of linewire in mm** | 3.14 |
| 3 | **Mesh size in mm** | 50.01 |
| 4 | **Nominaldia of meshwire in mm** | 2.52 |
| 5 | **Bend Test** | Satisfactory |

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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## CEMENT CONCRETE PRECAST CONCRETE BLOCKS FOR PAVING

| | | |
|---|---|---|
| **Lab ID** | : | CP-2021-07-20-20 **Date: 22-04-21** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| **Address** | : | Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| **Project Name** | : | "Providing Chain Link Fencing in Ward No:04". |
| **Agency** | : | Sri.R.Ranganath, No:37, 19th Cross, 1st N Block, Rajajinagara, Mahalakshmipuram. |
| **Customer Reference** | : | BBMP/EE/YNK.D/EPMT--8/W.O/02/2020-21 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 17-04-21 |
| **Sample Type/ Size** | : | Precast concrete blocks for paving |
| **Reference to BIS codes** | : | IS 15658:2006 |
| **Date of test** | : | 17-04-21 |

**1.Compressive Strength**

| SLNo. | Dimension (mm) | | | Compressive Strength | Average |
|---|---|---|---|---|---|
| | L | B | T | ($N/mm^2$) | ($N/mm^2$) |
| 1 | 197.22 | 159.88 | 75.99 | 32.5 | 33.1 |
| 2 | 198.48 | 159.64 | 75.25 | 33.8 | |
| 3 | 199.54 | 159.54 | 75.48 | 32.5 | |
| 4 | 197.68 | 159.22 | 75.55 | 33.5 | |
| 5 | 198.11 | 159.87 | 75.32 | 32.8 | |
| 6 | 198.18 | 160.02 | 75.11 | 33.4 | |
| 7 | 198.45 | 158.99 | 75.98 | 33.2 | |
| 8 | 197.22 | 159.22 | 75.12 | 32.8 | |

**2. Water Absorption**

| SLNo. | Wet Weight | Dry weight | Thickness | Water Absorption (%) | Average (%) |
|---|---|---|---|---|---|
| 1 | 4.987 | 4.828 | 75.85 | 3.29 | 3.64 |
| 2 | 4.898 | 4.721 | 75.22 | 3.75 | |
| 3 | 4.988 | 4.802 | 75.44 | 3.87 | |

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager



M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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# TEST REPORT OF CEMENT CONCRETE CUBES

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2021-07-20-20** **Date: 07/05/2021** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| **Address** | : | Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| **Project Name** | : | "Providing Chain Link Fencing in Ward No:04". |
| **Agency** | : | Sri.R.Ranganath, No:37, 19th Cross, 1st N Block, Rajajinagara, Mahalakshmipuram. |
| **Customer's Reference** | : | BBMP/EE/YNK.D/EPMT--8/W.O/02/2020-21 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 03-05-21 |
| **Customer ID** | : | PCC |
| **Sample Type /Size** | : | 150X150X150 mm |
| **Sample grade/Age** | : | M20 / 7 Days Compressive Strength |
| **Reference to BIS codes** | : | IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5 |
| **Date of test** | : | 07/05/2021 |

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | PCC | M20 | 30/04/2021 | 07/05/2021 | 150.43 X 149.37 X 151.14 | 22469 | 8.367 | 424.5 | 18.9 | 18.6 |
| 2 | PCC | M20 | 30/04/2021 | 07/05/2021 | 151.31 X 151.49 X 150.50 | 22922 | 8.517 | 416.3 | 18.2 | |
| 3 | PCC | M20 | 30/04/2021 | 07/05/2021 | 151.79 X 151.97 X 150.30 | 23067 | 8.676 | 430.6 | 18.7 | |

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# TEST REPORT OF CEMENT CONCRETE CUBES

Date: 01/05/2021

| | | |
|---|---|---|
| Lab ID | : | CP-2021-07-20-20 |
| Customer | : | Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| Address | : | Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| Project Name | : | "Providing Chain Link Fencing in Ward No:04". |
| Agency | : | Sri.R.Ranganath, No:37, 19th Cross, 1st N Block, Rajajinagara, Mahalakshmipuram. |
| Customer's Reference | : | BBMP/EE/YNK.D/EPMT--8/W.O/02/2020-21 |
| Source of Sample | : | Sample supplied by Agency |
| Sample Condition | : | Satisfactory |
| Date of Receipt | : | 26-04-21 |
| Customer ID | : | PCC |
| Sample Type /Size | : | 150X150X150 mm |
| Sample grade/Age | : | M15 / 7 Days Compressive Strength |
| Reference to BIS codes | : | IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5 |
| Date of test | : | 01/05/2021 |

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | PCC | M15 | 24/04/2021 | 01/05/2021 | 151.87 X 150.04 X 150.92 | 22786 | 8.733 | 274.5 | 12.0 | 12.4 |
| 2 | PCC | M15 | 24/04/2021 | 01/05/2021 | 150.52 X 149.96 X 149.94 | 22573 | 8.146 | 288.0 | 12.8 | |
| 3 | PCC | M15 | 24/04/2021 | 01/05/2021 | 150.87 X 151.75 X 151.74 | 22895 | 8.782 | 282.7 | 12.3 | |

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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# TEST REPORT OF CEMENT CONCRETE CUBES

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2021-07-20-20** **Date: 01/05/2021** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| **Address** | : | Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| **Project Name** | : | "Providing Chain Link Fencing in Ward No:04". |
| **Agency** | : | Sri.R.Ranganath, No:37, 19th Cross, 1st N Block, Rajajinagara, Mahalakshmipuram. |
| **Customer's Reference** | : | BBMP/EE/YNK.D/EPMT--8/W.O/02/2020-21 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 26-04-21 |
| **Customer ID** | : | PCC |
| **Sample Type /Size** | : | 150X150X150 mm |
| **Sample grade/Age** | : | M15 / 7 Days Compressive Strength |
| **Reference to BIS codes** | : | IS 516 - 1959 Methods of Tests for Strength of Concrete Cl.5 |
| **Date of test** | : | 01/05/2021 |

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | PCC | M15 | 24/04/2021 | 01/05/2021 | 150.87 X 150.88 X 149.09 | 22765 | 8.733 | 280.2 | 12.3 | 12.6 |
| 2 | PCC | M15 | 24/04/2021 | 01/05/2021 | 150.40 X 149.78 X 149.54 | 22526 | 8.146 | 287.9 | 12.8 | |
| 3 | PCC | M15 | 24/04/2021 | 01/05/2021 | 150.31 X 149.73 X 150.31 | 22506 | 8.782 | 285.6 | 12.7 | |

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager


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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

Date: 01/05/2021

| | | |
|---|---|---|
| Lab ID | : | CP-2021-07-20-20 |
| Customer | : | Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| Address | : | Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| Project Name | : | "Providing Chain Link Fencing in Ward No:04". |
| Agency | : | Sri.R.Ranganath, No:37, 19th Cross, 1st N Block, Rajajinagara, Mahalakshmipuram. |
| Customer's Reference | : | BBMP/EE/YNK.D/EPMT--8/W.O/02/2020-21 |
| Source of Sample | : | Sample supplied by Agency |
| Sample Condition | : | Satisfactory |
| Date of Receipt | : | 26-04-21 |
| Customer ID | : | PCC |
| Sample Type /Size | : | 150X150X150 mm |
| Sample grade/Age | : | M15 / 7 Days Compressive Strength |
| Reference to BIS codes | : | IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5 |
| Date of test | : | 01/05/2021 |

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | PCC | M15 | 24/04/2021 | 01/05/2021 | 151.47 X 150.77 X 150.13 | 22837 | 8.733 | 283.5 | 12.4 | 12.4 |
| 2 | PCC | M15 | 24/04/2021 | 01/05/2021 | 151.93 X 150.74 X 149.36 | 22902 | 8.146 | 288.8 | 12.6 | |
| 3 | PCC | M15 | 24/04/2021 | 01/05/2021 | 149.87 X 150.66 X 149.57 | 22579 | 8.782 | 274.3 | 12.1 | |

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager


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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com
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# TEST REPORT OF CEMENT CONCRETE KERB STONE

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2021-07-20-20** **Date: 20-04-21** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| **Address** | : | Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| **Project Name** | : | "Providing Chain Link Fencing in Ward No:04". |
| **Agency** | : | Sri.R.Ranganath, No:37, 19th Cross, 1st N Block, Rajajinagara, Mahalakshmipuram. |
| **Customer's Reference** | : | BBMP/EE/YNK.D/EPMT--8/W.O/02/2020-21 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 16-04-21 |
| **Sample Type /Size** | : | CC Kerb Stone/ 450*165*400mm |
| **Reference to BIS codes** | : | IS: 516 - 1959 Methods of Tests for Strength of Concrete |
| **Date of test** | : | 16/04/2021 |

| Sl. No. | Identification Mark | Diameter of the core | Height of the core | Weight of the core | Area | Failure Load | Core Compressive strength | Corrected Cylinder Compressive strength | Equivalent Cube Compressive strength |
|---|---|---|---|---|---|---|---|---|---|
| | | (mm) | (mm) | Kg | (Sq.mm) | (KN) | (N/mm2 ) | (N/mm2 ) | (N/mm2 ) |
| 1 | A | 100.01 | 165.51 | 2.864 | 7854 | 142.1 | 18.1 | 18.1 | 22.6 |
| 2 | B | 100.03 | 165.49 | 2.793 | 7857 | 145.2 | 18.5 | 18.5 | 23.1 |
| 3 | C | 100.01 | 165.50 | 2.815 | 7854 | 145.1 | 18.5 | 18.5 | 23.1 |

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Note:

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## TEST REPORT ON COARSE AGGREGATES

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2021-07-20-20** **Date: 16-04-21** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| **Address** | : | Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| **Project Name** | : | "Providing Chain Link Fencing in Ward No:04". |
| **Agency** | : | Sri.R.Ranganath, No:37, 19th Cross, 1st N Block, Rajajinagara, Mahalakshmipuram. |
| **Customer Reference** | : | BBMP/EE/YNK.D/EPMT--8/W.O/02/2020-21 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 14-04-21 |
| **Sample Type/ Size** | : | 20mm down size coarse aggregate |
| **Reference to BIS codes** | : | IS: 383:2016 (Specification for Coarse and fine Aggregates )<br>IS: 2386 :1963(Part - 1,3,4) RA2011<br>IS 2386 Part 1: Particle Size and Shape<br>IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption<br>IS 2386 Part 4: Mechanical Properties |
| **Date of test** | : | 14-04-21 |

**SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:**

**Total weight taken** : 5000 grams

| Sample No. | Sieve No. | Weight Retained in gms | Cumulative Weight Retained in gms | % Cumulative Weight Retained | % Passing | Required as per IS 383:2016 |
|---|---|---|---|---|---|---|
| 1 | 40 mm | 0 | 0 | 0 | 100 | 100 |
| 2 | 20 mm | 155 | 155 | 3.1 | 96.9 | 90-100 |
| 3 | 10 mm | 3344 | 3499 | 70.0 | 30.0 | 25-55 |
| 4 | 4.75 mm | 1377 | 4876 | 97.5 | 2.5 | 0-10 |
| 5 | Pan | 124 | 5000 | 100 | 0 | - |

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CIVIL Pro Sig. Date.



M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

## TEST REPORT ON COARSE AGGREGATES

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2021-07-20-20** **Date: 17-04-21** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| **Address** | : | Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| **Project Name** | : | "Providing Chain Link Fencing in Ward No:04". |
| **Agency** | : | Sri.R.Ranganath, No:37, 19th Cross, 1st N Block, Rajajinagara, Mahalakshmipuram. |
| **Customer's Reference** | : | BBMP/EE/YNK.D/EPMT--8/W.O/02/2020-21 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample condition** | : | Satisfactory |
| **Date of Receipt** | : | 14-04-21 |
| **Sample Type** | : | 40mm down size coarse aggregate |
| **Reference to BIS codes** | : | IS: 383:2016 (Specification for Coarse and fine Aggregates )<br>IS: 2386 :1963(Part - 1,3,4) RA2011<br>IS 2386 Part 1: Particle Size and Shape<br>IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption<br>IS 2386 Part 4: Mechanical Properties |
| **Date of test** | : | 14-04-21 |

**SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:**

**Total weight taken : 15000 grams**

| Sample No. | Sieve No. | Weight Retained in gms | Cumulative Weight Retained in gms | % Cumulative Weight Retained | % Passing | Required as per IS 383:2016 |
|---|---|---|---|---|---|---|
| 1 | 80 mm | 0 | 0 | 0.0 | 100 | 100 |
| 2 | 40 mm | 429 | 429 | 2.9 | 97.1 | 90-100 |
| 3 | 20 mm | 7195 | 7624 | 50.8 | 49.2 | 30-70 |
| 4 | 10 mm | 3859 | 11483 | 76.6 | 23.4 | 10-35 |
| 5 | 4.75 mm | 2953 | 14436 | 96.2 | 3.8 | 0-5 |
| 6 | Pan | 564 | 15000 | 100.0 | 0 | --- |



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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

## QC ABSTRACT

**NAME OF WORK:** "Providing Chain Link Fencing in Ward No:04".

| SL NO | Item Of Work | Name of Test | Frequency of Test/Quantity | Executed Quantity | Number of Tests Required | Number of Tests Conducted |
|---|---|---|---|---|---|---|
| | | Materials | | | | |
| 1 | Cement | Fineness by dry sieving | One Test | | 1 | 1 |
| | | Finess by Air permeablity method | One Test | | 1 | 1 |
| | | Density | One Test | | 1 | 1 |
| | | Standard Consistency | One Test | | 1 | 1 |
| | | Initial Setting time | One Test | | 1 | 1 |
| | | Final Setting time | One Test | | 1 | 1 |
| | | Soundness (Le Chatelier's Method) | One Test | | 1 | 1 |
| | | Compressive Strength | One Test | | 1 | 1 |
| 2 | Coarse aggregate(40 mm down size) | SIEVE ANALYSIS | One Test | | 1 | 1 |
| | | Flakiness Index | One Test | | 1 | 1 |
| | | Elongation Index | One Test | | 1 | 1 |
| | | Specific Gravity | One Test | | 1 | 1 |
| | | Bulk Density(Loose) | One Test | | 1 | 1 |
| | | Bulk Density(Compacted) | One Test | | 1 | 1 |
| | | Water Absorption | One Test | | 1 | 1 |
| 3 | Coarse aggregate(20 mm down size) | SIEVE ANALYSIS | One Test | | 1 | 1 |
| | | Flakiness Index | One Test | | 1 | 1 |
| | | Elongation Index | One Test | | 1 | 1 |
| | | Specific Gravity | One Test | | 1 | 1 |
| | | Bulk Density(Loose) | One Test | | 1 | 1 |
| | | Bulk Density(Compacted) | One Test | | 1 | 1 |
| | | Water Absorption | One Test | | 1 | 1 |
| | | Aggregate crushing Value | One Test | | 1 | 1 |
| | | Aggregate Impact Value | One Test | | 1 | 1 |
| 4 | Fine aggregate | SIEVE ANALYSIS | One Test | | 1 | 1 |
| | | Water Absorption | One Test | | 1 | 1 |
| | | Specific Gravity | One Test | | 1 | 1 |
| | | Material finer than 75 micron | One Test | | 1 | 1 |
| 5 | KERB | Core Compressive strength | One Test | | 1 | 1 |
| | | Corrected Cylinder Compressive strength | One Test | | 1 | 1 |
| | | Equivalent Cube Compressive strength | One Test | | 1 | 1 |
| 6 | PCC(M15) | Compressive Strength(7days and 28days) | 4 set /31-50 cum | 34.53 | 8 | 8 |
| 7 | PCC(M20) | Compressive Strength(7days and 28days) | 2 set /6-15 cum | 9.26 | 4 | 4 |
| 8 | Paver Block | Compressive Strength | One Test | | 1 | 1 |
| | | Water Absorption | One Test | | 1 | 1 |
| 9 | Chain Link Fencing | Average Thickness | One Test | | 1 | 1 |
| | | Dia of line wire | One Test | | 1 | 1 |
| | | Mesh size | One Test | | 1 | 1 |
| | | Nominal dia of mesh wire | One Test | | 1 | 1 |
| | | Bend Test | One Test | | 1 | 1 |
| 10 | M.S Block Pipe | Yeild Stress | One Test | | 1 | 1 |
| | | Tensile Strength | One Test | | 1 | 1 |
| | | Elongation Percentage | One Test | | 1 | 1 |
| 11 | M.S. Rectangular pipe | Weight/Meter | One Test | | 1 | 1 |
| | | Yeild stress | One Test | | 1 | 1 |
| | | Tensile Strength | One Test | | 1 | 1 |
| | | Elongation Percentage | One Test | | 1 | 1 |
| | | Bend Test | One Test | | 1 | 1 |

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## TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2021-07-20-20** **Date: 17-04-21** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| **Address** | : | Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| **Project Name** | : | "Providing Chain Link Fencing in Ward No:04". |
| **Agency** | : | Sri R Ranganath, No:37, 19th Cross, 1st N Block, Rajajinagara, Mahalakshmipuram. |
| **Customer's Reference** | : | BBMP/EE/YNK.D/EPMT--8/W.O/02/2020-21 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 14-04-21 |
| **Sample Type** | : | Birla Super 53grade |
| **Reference to BIS codes** | : | IS 12269 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988<br>IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4<br>IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5<br>IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6<br>IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5<br>IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5<br>IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6 |
| **Date of test** | : | 15-04-21 |
| **Environmental Conditions during test** | : | Temperature 26°C<br>Humidity 72% |

| Sl.No. | Physical properties | Results | Requirement as per IS 12269: 2013 |
|---|---|---|---|
| 1 | Fineness by dry sieving (%) | 1.64 | - |
| 2 | Finess by Air permeablity method ($m^2$/kg,Min) | 296.2 | 225$m^2$/kg, Min |
| 3 | Density (gm/cc) | 3.12 | - |
| 4 | Standard Consistency (%) | 29.0% | Not specified |
| 5 | Initial Setting time | 146 minutes | Not less than 30 minutes |
| 6 | Final Setting time | 292 minutes | Not more than 600 minutes |
| 7 | Soundness (Le Chatelier's Method) | 2.5mm | Not more than 10 mm |

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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Samples will be disposed after 30 days from the date of issue of test certificate

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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager



****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

Format No: CP/TF/01

## TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2021-07-20-20** **Date: 13-05-21** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| **Address** | : | Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| **Project Name** | : | "Providing Chain Link Fencing in Ward No:04". |
| **Agency** | : | Sri.R.Ranganath, No:37, 19th Cross, 1st N Block, Rajajinagara, Mahalakshmipuram. |
| **Customer's Reference** | : | BBMP/EE/YNK.D/EPMT--8/W.O/02/2020-21 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 14-04-21 |
| **Sample Type** | : | Birla Super 53grade |
| **Reference to BIS codes** | : | IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,<br>IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5<br>IS 4031 Part 6, Determination of Compressive Strength, Clause 6 |
| **Date of test** | : | 15-04-21 |
| **Environmental Conditions during test** | : | Temperature: 26°C<br>Humidity: 72% |

**Compressive Strength**

| Sl.No. | Physical properties | Results | Requirement as per IS 12269: 2013 |
|---|---|---|---|
| 1 | 3 Days | 28.5N/mm$^2$ | Not less than 27 N/mm$^2$ |
| 2 | 7 Days | 39.0N/mm$^2$ | Not less than 37 N/mm$^2$ |
| 3 | 28 Days | 58.5N/mm$^2$ | Not less than 53 N/mm$^2$ |

* The results obtained are satisfactory as per standard requirements.

**Note:**

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FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager


****End of Report****